

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	(381/355-362).ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) near2 (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:28
L2	1	"381"/\$.ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) near2 (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:28
L3	0	"379"/\$.ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) near2 (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:28
L4	0	"455"/\$.ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) near2 (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:29
L5	0	"455"/\$.ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) with (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:29
L6	1	"381"/\$.ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) with (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:30
L7	2	microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) with (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:29
L8	6	"381"/\$.ccls. and microphone same ((plurality near2 openings) with ((one single) with (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:37
L9	1	"379"/\$.ccls. and microphone same ((plurality near2 openings) with ((one single) with (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:37

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L10	0	"455"/\$.ccls. and microphone same ((plurality near2 openings) with ((one single) with (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:38
L11	8	microphone same ((plurality near2 openings) with ((one single) with (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:39
L12	4489	((plurality near2 openings) with ((one single) with (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:39
L13	11	"381"/\$.ccls. and ((plurality near2 openings) with ((one single) with (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:40
L14	30	"381"/\$.ccls. and ((openings) with ((one single) near2 (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:47
L15	3	"455"/\$.ccls. and ((openings) with ((one single) near2 (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:48
L16	41	"381"/\$.ccls. and ((openings gaps ports entrance\$1) with ((one single) near2 (inlet path passageway passage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:56
L18	16	("4434507").URPN.	USPAT	OR	OFF	2007/07/21 16:51
L19	7	("2838127" "2840694" "3564416" "4344184").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/21 16:55
L20	1648	(openings gaps ports entrance\$1) with ((mak\$3 form\$3 creat\$3) near3 (one single) near2 (inlet path passageway passage))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:58
L21	3	((openings gaps ports entrance\$1) with ((mak\$3 form\$3 creat\$3) near3 (one single) near2 (inlet path passageway passage))) same microphone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:59

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L22	13	"381"/\$.ccls. and ((mak\$3 form\$3 creat\$3) near3 (one single) near2 (inlet path passageway passage)) same microphone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:59
L23	115	(381/355-362).ccls. and microphone with (one single) with (path inlet passage passageway)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 17:06
L24	0	("2928490").URPN.	USPAT	OR	OFF	2007/07/21 17:09
L25	0	("2928490").URPN.	USPAT	OR	OFF	2007/07/21 17:09
L26	0	("2928490").URPN.	USPAT	OR	OFF	2007/07/21 17:09
L28	2	tortuous adj2 (open\$3 or inlet) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/07/21 17:30
L29	1	L28 and (inlet same upper same lower)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/07/21 17:30
S1	1	("5491478").PN.	USPAT; USOCR	OR	OFF	2004/11/08 17:42
S3	1	macrae.in. and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 15:50
S4	79	"M/A-COM".AS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 15:50
S5	367	(381/111).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/11/04 13:55
S6	398	(portable adj2 radio) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 13:44
S7	0	(portable adj2 radio) same microphone same tortuous	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 13:24
S8	9	(portable adj2 radio) same microphone same (wind\$3 or twist\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 13:27
S9	30	"4718110".URPN.	USPAT	OR	OFF	2004/10/08 13:26
S10	1	microphone same (tortuous adj2 path)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 15:48
S11	6	"3652810".URPN.	USPAT	OR	OFF	2004/10/08 13:28

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S12	0	((mobile or cell\$6) adj2 phone) same microphone same tortuous	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 13:46
S13	5	((mobile or cell\$6) adj2 phone) same microphone same twist\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 13:46
S14	3	((mobile or cell\$6) adj2 phone) same microphone same inlet	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 14:14
S15	116	microphone adj2 enclosure	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 14:38
S16	0	((mobile or cell\$6) adj2 phone) same (upper near3 lower near3 converg\$5 near2 microphone)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 13:50
S17	2	((mobile or cell\$6) adj2 phone) same (upper near3 lower near3 microphone)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 13:51
S18	2593	((mobile or cell\$6) adj2 phone) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 13:54
S19	76	((mobile or cell\$6) adj2 phone) same microphone same (inlet or opening)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/10 18:10
S20	492	(381/112-117).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/10/22 10:28
S21	14	microphone adj2 enclosure same open\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 17:25
S22	29	((mobile or cell\$6) adj2 phone) same microphone same (inlet or opening) and upper same lower	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 11:24
S23	72	((mobile or cell\$6) adj2 phone) same microphone same upper same lower	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/10 18:12
S24	8	(381/111-117).ccls. and plurality adj2 openin\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/22 10:30
S25	46	("381"/\$).ccls. and microphone same (plurality adj2 openin\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/22 10:30
S26	4	microphone same (inlet) same (plurality adj2 openi\$4)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/22 10:35

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S27	1654	("455"/\$).ccls. and microphone same (plurality of open\$4)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 09:37
S28	867	("455"/\$).ccls. and microphone same (plurality of open\$4) and phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/22 10:36
S29	322	("455"/\$).ccls. and microphone same (plurality of open\$4) same phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/22 10:37
S30	2	("455"/\$).ccls. and microphone same (plurality adj2 open\$4) same phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/22 10:37
S31	20	("455"/\$).ccls. and microphone same (plurality adj2 open\$4) and phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 14:51
S32	6	("455"/\$).ccls. and (microphone adj2 por\$2) same phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/22 10:48
S33	53	("455"/\$).ccls. and (microphone adj2 por\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/22 10:48
S34	0	(microphone adj2 cas\$3) same tortuous	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/28 17:04
S35	4	(microphone adj2 cas\$3) same (twist\$3 or bend\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/28 17:05
S36	120	tortuous adj2 (open\$3 or inlet)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/28 17:06
S37	1	tortuous adj2 (open\$3 or inlet) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/07/21 17:30
S38	490	(381/355,361).ccls. and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 15:12
S40	26	(381/355,361).ccls. and microphone same inlet	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 12:04
S41	9	(radio adj2 telephon\$2) same microphone same (inlet or por\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/28 17:16
S42	8	(radio adj2 telephon\$2) same microphone same (inlet or port)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/28 17:16

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S43	0	(radio adj2 telephon\$2) same microphone same (twist\$3 near2 path)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/28 17:17
S44	0	(radio adj2 telephon\$2) same microphone same (bend\$3 near2 path)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/28 17:17
S45	0	(radio adj2 telephon\$2) same microphone same (Twist\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/28 17:17
S46	2	(radio adj2 telephon\$2) same microphone same (bend\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/28 17:18
S47	16	(portable adj2 radio) same microphone same (inlet or por\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:48
S48	62	(381/111,122).ccls. and (inlet or port)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 09:26
S49	1	("20030036367").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/10/29 09:26
S50	2	macrae.in. and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 09:36
S51	544	("455"/\$).ccls. and microphone same (inlet or port)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 09:37
S52	141	("455"/\$).ccls. and microphone same (inlet or port) same antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 10:36

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S53	54	("3912875" "4122304" "4658096" "4659878" "4718080" "4737975" "4748655" "4768218" "4768220" "4775997" "4790000" "4802235" "4811420" "4826421" "4850033" "4881271" "4922517" "4939766" "4959851" "4972455" "4989230" "5008925" "5020091" "5020092" "5020093" "5046082" "5046085" "5093925" "5117450" "5127042" "5131029" "5146486" "5148548" "5153904" "5157719" "5159625" "5175872" "5179721" "5203012" "5208847" "5247565" "5274693" "5276729" "5305372" "5402481" "5422945" "5509056" "5535260" "5550907" "5563931" "5594782" "5722087" "5963875" "6021335").PN.	USPAT	OR	OFF	2004/10/29 09:46
S54	20	"5933330".URPN.	USPAT	OR	OFF	2004/10/29 10:25
S55	1	("6611697").PN.	USPAT; USOCR	OR	OFF	2004/10/29 10:33
S56	20	(portable adj3 radio) same microphone same (inlet or port)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 15:25
S57	1	(portable adj3 radio) same (microphone adj2 gasket)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 10:46
S58	1	(portable adj3 radio) same (microphone adj2 seal)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 10:47
S59	1	(portable adj3 radio) same (microphone near2 seal)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 18:10
S60	4	(portable adj3 radio) and (microphone near2 seal)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 10:48
S61	0	"5933765".URPN.	USPAT	OR	OFF	2004/10/29 10:48
S62	5	("4959510" "4970780" "5011256" "5019944" "5565261").PN.	USPAT	OR	OFF	2004/10/29 10:48
S63	455	(portable adj3 radio) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 14:39

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S64	1	(portable adj3 radio) same (microphone near3 protect\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 14:19
S65	16	(portable adj3 radio) and (microphone near3 protect\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:10
S66	13	(radiotelephone) and (microphone near5 protect\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 10:57
S67	25	(cellu\$3 adj2 phone) and (microphone near5 protect\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:00
S68	6	"5828012".URPN.	USPAT	OR	OFF	2004/10/29 11:02
S69	13	(mobile adj2 phone) and (microphone near5 protect\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:03
S70	135	(microphone near3 protect\$3) and (portable or mobile or cellu\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:46
S71	2	(microphone near3 protect\$3) and (portable or mobile or cellu\$3) and (upper adj3 cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:46
S72	1	(microphone near3 protect\$3) same (upper adj3 cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:47
S73	2	(microphone near3 protect\$3) and (upper adj3 cas\$3) and (lower adj3 cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:48
S74	18	(radiotelephone) and (upper adj3 cas\$3) and (lower adj3 cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:49
S75	153	(mobile adj2 phone) and (upper adj3 cas\$3) and (lower adj3 cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:48
S76	136	(mobile adj2 phone) and (upper adj3 cas\$3) same (lower adj3 cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:51
S77	16	(radiotelephone) and (upper adj3 cas\$3) same (lower adj3 cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:49
S78	7	(mobile adj2 phone) and (upper adj3 cas\$3) same (lower adj3 cas\$3) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:56
S79	14	(cellular adj2 phone) and (upper adj3 cas\$3) same (lower adj3 cas\$3) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:55

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S80	0	(upper adj3 cas\$3) same (lower adj3 cas\$3) same (converge or meet) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:55
S81	27	(upper adj3 cas\$3) same (lower adj3 cas\$3) near3 microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 18:01
S82	0	(mobile adj2 phone) and (microphone near2 middle near2 cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:57
S83	1	(radiotelephone) and (microphone same mid\$3 same cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:57
S84	14	(cellular adj2 phone) and (microphone same mid\$3 same cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:58
S85	9	(mobile adj2 phone) and (microphone same mid\$3 same cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 11:59
S86	2	(portable or mobile or cellu\$3) and (microphone near2 mid\$3 near3 cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:01
S87	0	microphone near2 middle near3 cas\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:00
S88	2	microphone near3 middle near3 cas\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:00
S89	17	(portable or mobile or cellu\$3) and (microphone near2 middle)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:02
S90	2	(portable or mobile or cellu\$3) and (microphone near2 midway)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:02
S91	86	(portable or mobile or cellu\$3) and (microphone near2 center)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:12
S92	0	microphone near3 mount\$3 near4 middle near5 phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:13
S93	0	microphone near3 dispos\$3 near4 middle near5 phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:36
S94	0	microphone near3 dispos\$3 near4 center near5 phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:14

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S95	0	microphone near3 mount\$3 near4 center near5 phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:14
S96	0	microphone near3 plac\$3 near4 center near5 phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:14
S97	12	microphone near3 above near3 (keypad or keyboard or keys)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:17
S98	10	microphone near3 top near3 (keypad or keyboard or keys)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 12:18
S99	34	microphone near3 upper near3 cas\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:07
S10 0	0	microphone near2 between near3 upper near3 cas\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:03
S10 1	102	(379/433.03).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/10/29 13:09
S10 2	83	(379/433.03).ccls. and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:09
S10 3	6	"6108416".URPN.	USPAT	OR	OFF	2004/10/29 13:16
S10 4	5	"5692046".URPN.	USPAT	OR	OFF	2004/10/29 13:33
S10 5	13	("3476886" "4018998" "4446333" "4684017" "4840288" "5189632" "5221838" "5325984" "5335273" "5348347" "5436969" "5465401" "5535439").PN.	USPAT	OR	OFF	2004/10/29 13:34
S10 6	0	microphone near3 dispos\$3 near4 top near5 phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:36
S10 7	6	microphone near3 top near5 phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:37
S10 8	1	microphone near3 middle near5 phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:45
S10 9	0	microphone near3 middle near5 telephone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:38

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S11 0	0	microphone near3 middle near5 handset	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:39
S11 1	0	microphone near3 middle near5 radio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:41
S11 2	2	microphone near3 middle near5 cover	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:42
S11 3	1	microphone near4 middle near5 phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:49
S11 4	0	microphone near4 middle near5 enclosure	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:44
S11 5	1	microphone near3 center near5 phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:45
S11 6	3	microphone near3 center near5 radio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:45
S11 7	1	microphone near4 intermediate near5 phone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:49
S11 8	3	microphone near4 intermediate near5 radio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:49
S11 9	175	(cellular adj2 phone) and (upper adj3 cas\$3) same (lower adj3 cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 13:54
S12 0	455	(portable adj3 radio) same (microphone)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 14:19
S12 1	0	twist\$3 adj2 microphone adj2 Inlet	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 14:39
S12 2	0	tortuous adj2 microphone adj2 port	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 14:40
S12 3	0	twist\$3 adj2 microphone adj2 port	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 15:11
S12 4	2	((("6201876") or ("5491478")).PN.	USPAT; USOCR	OR	OFF	2004/10/29 15:12
S12 5	44	(381/355,361).ccls. and seal\$3 and (por\$2 or inlet or (sound adj2 openin\$2))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 18:00

EAST Search History

S12 6	15	("4500595" "4533795" "4912604" "4945633" "4983148" "5006667" "5271056" "5284888" "5365410" "5400949" "5442521" "5603103" "5640457" "5687470" "5708720").PN.	USPAT	OR	OFF	2004/10/29 15:14
S12 7	3	"5491478".URPN.	USPAT	OR	OFF	2004/10/29 15:17
S12 8	182	(portable adj3 radio) same microphone same antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 15:25
S12 9	34	(381/355,361).ccls. and seal\$3 near3 microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/29 15:34
S13 0	663	(381/355,361).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/10/29 15:44
S13 1	2	("4920564" "5265274").PN.	USPAT	OR	OFF	2004/10/29 16:22
S13 2	1	("5422656").PN.	USPAT; USOCR	OR	OFF	2004/10/29 18:15
S13 3	1	("5422656").PN.	USPAT; USOCR	OR	OFF	2004/11/04 13:53
S13 4	0	("radiosamemicrophonesamecas\$3")PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/11/04 13:55
S13 5	1124	radio same microphone same cas\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 13:55
S13 6	83	portable near2 radio same microphone same cas\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 17:27
S13 7	1	(microphone adj2 enclosure) same antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 14:39
S13 8	819	(455/575.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/11/04 14:51
S13 9	112	(455/575.1).ccls. and microphone same cas\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 15:15

EAST Search History

S14 0	11	("4059728" "5138329" "5168982" "5610971" "5692032" "5794142" "5841849" "5852783" "5937360" "5966671" "5987336").PN.	USPAT	OR	OFF	2004/11/04 15:13
S14 1	4	"6349220".URPN.	USPAT	OR	OFF	2004/11/04 15:14
S14 2	39	("455"/\$).cccls. and microphone near3 (middle or midway or center)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 15:16
S14 3	384	"nokia".AS. and radiotelephon\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 15:41
S14 4	18	"6188765".URPN.	USPAT	OR	OFF	2004/11/04 15:28
S14 5	2	("5933330" "5987122").PN.	USPAT	OR	OFF	2004/11/04 15:29
S14 6	0	"nokia".AS. and microphone near3 (middle or midway or center)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 15:42
S14 7	0	"nokia".AS. and microphone near3 (middle)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 15:42
S14 8	14	"nokia".AS. and microphone near3 cas\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 15:45
S14 9	1	("6201876").PN.	USPAT; USOCR	OR	OFF	2004/11/04 15:45
S15 0	966	microphone adj3 cas\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 17:25
S15 1	75	(microphone adj3 cas\$3) same portable	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 17:36
S15 2	2233	(microphone near3 cas\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 17:36
S15 3	2320	microphone near3 (case or casing or enclosure)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 17:37
S15 4	154	microphone near3 (case or casing or enclosure) same portable	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 17:42
S15 5	5768	(mobile or cellular) adj2 phone same (case or casing or enclosure)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 17:42

EAST Search History

S15 6	350	(mobile or cellular) adj2 phone same (case or casing or enclosure) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/04 10:15
S15 7	2	"6201876".URPN.	USPAT	OR	OFF	2004/11/04 17:59
S15 8	15	("4500595" "4533795" "4912604" "4945633" "4983148" "5006667" "5271056" "5284888" "5365410" "5400949" "5442521" "5603103" "5640457" "5687470" "5708720").PN.	USPAT	OR	OFF	2004/11/04 17:59
S15 9	139	(upper adj3 cas\$3) same (lower adj3 cas\$3) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 18:01
S16 0	183	(portable adj3 radio) same (microphone) same antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 18:22
S16 1	3528	(radio) same (microphone) same antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 18:15
S16 2	996	(radio) same (microphone) same antenna same circuit	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 18:16
S16 3	300	(portable adj3 radio) same (microphone) and antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/04 18:23
S16 4	37	(notebook or portable) adj2 computer same antenna same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 15:00
S16 5	8	(wireless) adj2 computer same antenna same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 14:53
S16 6	22	computer near3 antenna same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 14:53
S16 7	4	(notebook or portable) adj2 computer same antenna near3 microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 15:37
S16 8	788	(notebook or portable) adj2 computer same antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 14:56
S16 9	139	(notebook or portable) adj2 computer same antenna and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 15:19
S17 0	1	("6148089").PN.	USPAT; USOCR	OR	OFF	2004/11/08 15:20

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S17 1	5	(portable) same computer same antenna near3 microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 15:38
S17 2	649	computer same antenna same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 17:40
S17 4	2	((("6148089") or ("20030072131") or ("6525854"))).PN.	USPAT	OR	OFF	2005/04/02 16:22
S17 5	3	((("6148089") or ("20030072131") or ("6525854"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/04/02 16:22
S17 6	286	macrae.in.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/02 16:26
S17 7	3	MacRae.in. and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/04 10:04
S17 8	55	(381/355,361).cccls. and microphone same port	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/04 10:11
S17 9	17	(mobile or cellular) adj2 phone same (case or casing or enclosure) same microphone same port	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/04 10:22
S18 0	17	(mobile or cellular) adj2 phone same (case or casing or enclosure) same microphone same (opening or inlet)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/04 10:23
S18 1	37	phone same (case or casing or enclosure) same microphone same (opening or inlet)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/04 10:23
S18 2	1	((("6766025") or ("20030142832"))).PN.	USPAT	OR	OFF	2005/04/04 14:14
S18 3	2	((("6766025") or ("20030142832"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/04/04 14:19
S18 4	1	("6044341").PN.	US-PGPUB; USPAT	OR	OFF	2005/04/04 14:19
S18 5	203	((mobile or cell\$6) adj2 phone) same microphone same (inlet or openi\$3 or ports)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 11:25
S18 6	101	((mobile or cell\$6) adj2 phone) same microphone same (inlet or openings or ports)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 11:26
S18 7	0	((mobile or cell\$6) adj2 phone) same microphone same inlet same (openings or ports)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 11:26
S18 8	7	((mobile or cell\$6) adj2 phone) same microphone same (inlet or channel) same (openings or ports)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 11:28

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S18 9	97	((mobile or cell\$6) adj2 phone) same microphone same (openings or ports)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 11:54
S19 0	0	((mobile or cell\$6) adj2 phone) same microphone same (prevent\$3 same foreign)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 11:55
S19 1	3	((mobile or cell\$6) adj2 phone) same microphone same (foreign)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 11:55
S19 2	4	((mobile or cell\$6) adj2 phone) same microphone same (prevent\$3 or protection) same water	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 11:58
S19 3	0	((mobile or cell\$6) adj2 phone) same microphone same (self-draining)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 11:56
S19 4	15	((mobile or cell\$6) adj2 phone) same (microphone near3 (prevent\$3 or protection))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 12:03
S19 5	14	(microphone near3 (prevent\$3 or protection)) near2 water	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 12:03
S19 6	193	(381/355,361).ccls. and microphone same (protect\$3 or prevent\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 15:31
S19 7	1	(381/355,361).ccls. and microphone near3 plurality near3 (openings or ports)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/23 13:23
S19 8	15	("381"/\$).ccls. and microphone near3 plurality near3 (openings or ports)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 15:32
S19 9	1	("6148089").URPN.	USPAT	OR	OFF	2005/11/21 15:44
S20 0	3	("4850016" "5627901" "5970159").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/21 15:45
S20 1	5	microphone same (tortuous)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 14:30
S20 2	3	MacRae.in. and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 15:50
S20 3	99	(microphone) same ((inlet or channel) near3 (openings or ports))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 15:51
S20 4	3	(portable adj2 radio) same microphone same (openings or ports)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 17:28

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S20 5	443	(portable adj2 radio) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 17:28
S20 6	36	(portable adj2 radio) same microphone same (inlet or channel)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 17:30
S20 7	126	((portable or mobile) adj2 radio) same microphone same (inlet or channel)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/21 17:30
S20 8	1	microphone same (inlets openings ports) with (converge convergence)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:42
S20 9	1428	(inlets openings ports) with (converge convergence)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 14:43
S21 0	0	(inlets openings ports) near2 (converge convergence) same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 14:34
S21 1	9	(inlets openings ports) near2 (converge convergence) and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 14:43
S21 2	9	(inlets openings ports) near2 (converge convergence meeting) and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:57
S21 3	301	(inlets openings ports) near2 (converge convergence)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 14:43
S21 4	13	(inlets openings ports) near2 (converge convergence meeting) near2 point	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:33
S21 5	20	(inlets openings ports) near2 (converge convergence meet\$3 adhere approach (come adj2 together)) near2 point	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:38
S21 6	145	(inlets openings ports) with (converge convergence meet\$3 adhere approach (come adj2 together)) near2 point	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:58
S21 7	2	microphone with ((converge convergence) with point)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:42
S21 8	11	microphone same ((converge convergence) with point)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:43
S21 9	278	microphone and ((converge convergence) with point)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:51

EAST Search History

S22 0	0	microphone and ((converge convergence) with point) same (inlet inlets ports openings)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/23 12:14
S22 1	0	(inlets openings ports) near2 (converge convergence meeting) same tortuous	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:57
S22 2	6	(inlets openings ports) same (converge convergence meeting) same tortuous	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:57
S22 3	180	(converge convergence meet\$3 adhere approach (come adj2 together)) with tortuous	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:58
S22 5	8038	(converge convergence meet\$3 adhere approach (come adj2 together)) with (tortuous bending winding)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:59
S22 6	799	(converge convergence meet\$3 adhere approach (come adj2 together)) with (tortuous bend\$3 wind\$3) same (ports inlets openings paths)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 15:59
S22 7	84	(converge convergence meet\$3 adhere approach (come adj2 together)) with (tortuous bend\$3 wind\$3) same (ports inlets openings paths) and (audio sound)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 16:01
S22 8	9	(converge convergence meet\$3 adhere approach (come adj2 together)) with (tortuous) same (ports inlets openings paths) and (audio sound)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 16:02
S22 9	46	(converge convergence meet\$3 adhere approach (come adj2 together)) with (tortuous) same (ports inlets openings paths)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 16:35
S23 0	517	(two near2 (paths inlets openings) with converg\$5)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 16:35
S23 1	9	(two near2 (paths inlets openings) with converg\$5) and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 16:36
S23 2	0	(two near2 (paths inlets openings) with converg\$5) same tortuous	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/17 16:37
S23 3	1	(two near2 (paths inlets openings) with converg\$5) and tortuous	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/23 12:14

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S23 4	21	((path inlet lumen) with form\$6 with converg\$5) and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/18 11:58
S23 5	1	(converg\$5 with tortuous) and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/18 11:59
S23 6	23	(converg\$5 with tortuous)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/18 11:59
S23 7	1	("5410608").PN.	USPAT	OR	OFF	2006/05/23 11:37
S23 8	3854	microphone same (inlet inlets ports openings)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/23 12:14
S23 9	26	(381/355-358).ccls. and microphone same (plurality near3 (openings ports))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/11/01 15:28
S24 0	8	(381/355-358).ccls. and microphone same (converg\$5)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/23 13:38
S24 1	14	(381/355-358).ccls. and microphone and (converg\$5)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/10/31 18:03
S24 2	82	(381/355-358).ccls. and microphone and (one near3 (path inlet passage passageway))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/11/01 15:28
S24 3	95	(381/355-362).ccls. and microphone and (one near3 (path inlet passage passageway))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/05/03 16:07
S24 4	370	(381/357).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/11/01 15:59
S24 5	246	S244 and microphone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/11/01 15:59
S24 6	3	("4850016" "5627901" "5970159").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 16:38
S24 7	1	("6148089").URPN.	USPAT	OR	OFF	2006/11/01 16:38

EAST Search History

S24 8	8	("5251329" "5282245" "5335368" "5548824" "5682418" "5715311" "5884197" "5890072").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 16:41
S24 9	347	(381/355-362).cccls. and microphone same (path inlet passage passageway)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 17:06
S25 0	16	("4434507").URPN.	USPAT	OR	OFF	2006/11/01 17:36
S25 1	7	("2838127" "2840694" "3564416" "4344184").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 17:39
S25 2	1	("4434507").PN.	USPAT	OR	OFF	2007/02/11 20:00
S25 3	24	(381/355-362).cccls. and microphone with (plurality near2 openings)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/21 16:26